PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
28615	ACTION		as, where applicable, item 5 below.
International application No.	International filing date (day/mon	h/year)	(Earliest) Priority Date (day/month/year)
PCT/IL2005/000010	04/01/2005	i	15/01/2004
Applicant			
ELOP ELECTROOPTICAL INDUST	RIES LTD.		
This International Search Report has been according to Article 18. A copy is being train	prepared by this International Seansmitted to the International Burea	rching Auth	ority and is transmitted to the applicant
This International Search Report consists	of a total ofsh	eets.	
X It is also accompanied by a	a copy of each prior art document of	ited in this i	report.
4. Paris addis assessed			
 Basis of the report a. With regard to the language, the ir language in which it was filed, unle 	nternational search was carried out ess otherwise indicated under this it	on the basi em.	is of the international application in the
The international s this Authority (Rule	earch was carried out on the basis e 23.1(b)).	of a transla	tion of the international application furnished to
b. With regard to any nucleo	tide and/or amino acid sequence	disclosed i	n the international application, see Box No. I.
2. Certain claims were foun	d unsearchable (See Box II).		
3. X Unity of invention is lack	ing (see Box III).		
4. With regard to the title,			
X the text is approved as sub	mitted by the applicant.		
the text has been establish	ed by this Authority to read as follo	ws:	
		•	
5. With regard to the abstract,			
X the text is approved as sub	mitted by the applicant.		
the text has been establish	ed, according to Rule 38.2(b), by the	is Authority	as it appears in Box No. IV. The applicant report, submit comments to this Authority.
may, was more more more	The date of maining of this internat	onai scarci	rreport, submit comments to this Authority.
6. With regard to the drawings,	·		
a. the figure of the drawings to be pu	blished with the abstract is Figure I	lo. <u>3</u>	
as suggested by the	• •		
	Authority, because the applicant fa		
	Authority, because this figure bette	r characteri	zes the invention.
b none of the figures is to be	published with the abstract.		

International application No. PCT/IL2005/000010

INTERNATIONAL SEARCH REPORT

Box ii Observations where certain claims were found unsearchable (Conuntiation of item 2 of first sneet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
see additional sheet	
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6

A constant current power supply for a laser diode comprising means to protect an attached laser diode from over-current spikes.

2. claims: 7-15

A power supply for charging a capacitive load comprising an inductance connected in series with the capacitive load and feedback means for controlling the series impedance of the capacitive load and the inductance to maintain the charging current of the capacitive load at a predetermined level.

International Application No PCT/IL2005/000010

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01S5/068

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\,7\,$ H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS	CONSIDERED	I O DE UELEVAIVI

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 2003/063641 A1 (JOHNSON RONALD E) 3 April 2003 (2003-04-03) figure 5	1,3,5
	paragraph '0005! - paragraph '0008! paragraph '0029! - paragraph '0031!	
Υ		2,4,6
Υ	US 4 872 080 A (HENTSCHEL ET AL) 3 October 1989 (1989-10-03) abstract; figure 2	2,4,6
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ΧI	Further documents are listed in the continuation of box C.

Y Patent family members are listed in annex.

° Special	categories	of cited	documents	:
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- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- P° document published prior to the international filing date but later than the priority date claimed
- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

1 2, 09, 05

& document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

26 August 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2

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Authorized officer

Meacher, D

International Application No
PCT/IL2005/000010

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
А	ANONYMOUS: "Improved driver circuit for semiconductor laser" RESEARCH DISCLOSURE, KENNETH MASON PUBLICATIONS, HAMPSHIRE, GB, vol. 249, no. 4, January 1985 (1985-01), XP007109683 ISSN: 0374-4353 the whole document	2,4,6		
A	HANKS R L ET AL: "Integrated power conditioning for laser diode arrays" 1995 PULSED POWER CONFERENCE. ALBUQUERQUE, JULY 3 - 6, 1995, PULSED POWER CONFERENCE, NEW YORK, IEEE, US, vol. VOL. 2, 3 July 1995 (1995-07-03), pages 928-933, XP010227789 ISBN: 0-7803-2791-8 page 929	1,6		
A	US 4 074 334 A (D"ARRIGO ET AL) 14 February 1978 (1978-02-14) figure 2	1,6		
A	EP 0 596 357 A (EASTMAN KODAK COMPANY) 11 May 1994 (1994-05-11) figure 1	1,6		
X	LIPPINCOTT A C ET AL: "A CAPACITOR-CHARGING POWER SUPPLY USING A SERIES-RESONANT TOPOLOGY, CONSTANT ON-TIME/VARIABLE FREQUENCY CONTROL, AND ZERO-CURRENT SWITCHING" IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, IEEE INC. NEW YORK, US, vol. 38, no. 6, 1 December 1991 (1991-12-01), pages 438-447, XP000275832 ISSN: 0278-0046 abstract; figures 2,3 page 440, right-hand column, line 9 - line 25	7,8,11		
Α	POLLOCK H: "Constant frequency, constant currentload-resonantcapacitor charging power supply" IEE PROCEEDINGS: ELECTRIC POWER APPLICATIONS, INSTITUTION OF ELECTRICAL ENGINEERS, GB, vol. 146, no. 2, 10 March 1999 (1999-03-10), pages 187-192, XP006013357 ISSN: 1350-2352 page 189, right-hand column - page 190, left-hand column; figures 3,4	7,8,11		

4

International Application No
PCT/IL2005/000010

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
tegory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
	STEIGERWALD R L: "A COMPARISON OF HALF-BRIDGE RESONANT CONVERTER TOPOLOGIES" IEEE TRANSACTIONS ON POWER ELECTRONICS, IEEE INC. NEW YORK, US, vol. 3, no. 2, April 1988 (1988-04), pages 174-182, XP000858941 ISSN: 0885-8993 the whole document ————	7-15		
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Information on patent family members

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			DE	69322484 D1	21-01-1999
			DE	69322484 T2	24-06-1999
			EP	0596357 A1	11-05-1994
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